

**TOXICOLOGICAL PROFILE FOR
HEPTACHLOR/HEPTACHLOR EPOXIDE**

**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Agency for Toxic Substances and Disease Registry**

April 1993

DISCLAIMER

The use of company or product name(s) is for identification only and does not imply endorsement by the Agency for Toxic Substances and Disease Registry.

UPDATE STATEMENT

A Toxicological Profile for heptachlor/heptachlor epoxide was released on April 1989. This edition supersedes any previously released draft or final profile.

Toxicological profiles are revised and republished as necessary, but no less than once every three years. For information regarding the update status of previously released profiles, contact ATSDR at:

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FOREWORD

The Superfund Amendments and Reauthorization Act (SARA) of 1986 (Public Law 99-499) extended and amended the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA or Superfund). This public law directed the Agency for Toxic Substances and Disease Registry (ATSDR) to prepare toxicological profiles for hazardous substances which are most commonly found at facilities on the CERCLA National Priorities List and which pose the most significant potential threat to human health, as determined by ATSDR and the Environmental Protection Agency (EPA). The lists of the 250 most significant hazardous substances were published in the Federal Register on April 17, 1987, on October 20, 1988, on October 26, 1989, on October 17, 1990, and on October 17, 1991. A revised list of 275 substances was published on October 28, 1992.

Section 104(i)(3) of CERCLA, as amended, directs the Administrator of ATSDR to prepare a toxicological profile for each substance on the lists. Each profile must include the following:

- (A) The examination, summary, and interpretation of available toxicological information and epidemiological evaluations on a hazardous substance in order to ascertain the levels of significant human exposure for the substance and the associated acute, subacute, and chronic health effects.
- (B) A determination of whether adequate information on the health effects of each substance is available or in the process of development to determine levels of exposure which present a significant risk to human health of acute, subacute, and chronic health effects.
- (C) Where appropriate, identification of toxicological testing needed to identify the types or levels of exposure that may present significant risk of adverse health effects in humans.

This toxicological profile is prepared in accordance with guidelines developed by ATSDR and EPA. The original guidelines were published in the Federal Register on April 17, 1987. Each profile will be revised and republished as necessary.

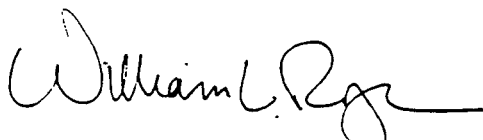
The ATSDR toxicological profile is intended to characterize succinctly the toxicological and adverse health effects information for the hazardous substance being described. Each profile identifies and reviews the key literature (that has been peer-reviewed) that describes a hazardous substance's toxicological properties. Other pertinent literature is also presented but described in less detail than the key studies. The profile is not intended to be an exhaustive document; however, more comprehensive sources of specialty information are referenced.

Each toxicological profile begins with a public health statement, which describes in nontechnical language a substance's relevant toxicological properties. Following the public health statement is information concerning levels of significant human exposure and, where known, significant health effects. The adequacy of information to determine a substance's health effects is described in a health effects summary. Data needs that are of significance to protection of public health will be identified by ATSDR and EPA. The focus of the profiles is on health and toxicological information; therefore, we have included this information in the beginning of the document.

Foreword

The principal audiences for the toxicological profiles are health professionals at the federal, state, and local levels, interested private sector organizations and groups, and members of the public.

This profile reflects our assessment of all relevant toxicological testing and information that has been peer reviewed. It has been reviewed by scientists from ATSDR, the Centers for Disease Control and Prevention (CDC), and other federal agencies. It has also been reviewed by a panel of nongovernment peer reviewers and is being made available for public review. Final responsibility for the contents and views expressed in this toxicological profile resides with ATSDR.

A handwritten signature in black ink, appearing to read "William L. Roper", with a stylized flourish at the end.

William L. Roper, M.D., M.P.H.
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THE PROFILE HAS UNDERGONE THE FOLLOWING ATSDR INTERNAL REVIEWS:

1. Green Border Review. Green Border review assures the consistency with ATSDR policy.
2. Health Effects Review. The Health Effects Review Committee examines the health effects chapter of each profile for consistency and accuracy in interpreting health effects and classifying endpoints.
3. Minimal Risk Level Review. The Minimal Risk Level Workgroup considers issues relevant to substance-specific minimal risk levels (MRLs), reviews the health effects database of each profile, and makes recommendations for derivation of MRLs.
4. Quality Assurance Review. The Quality Assurance Branch assures that consistency across profiles is maintained, identifies any significant problems in format or content, and establishes that Guidance has been followed.

CONTENTS

FOREWORD	v
CONTRIBUTORS	vii
LIST OF FIGURES	xiii
LIST OF TABLES	xv
1. PUBLIC HEALTH STATEMENT	1
1.1 WHAT ARE HEPTACHLOR AND HEPTACHLOR EPOXIDE?	1
1.2 WHAT HAPPENS TO HEPTACHLOR AND HEPTACHLOR EPOXIDE WHEN THEY ENTER THE ENVIRONMENT?	2
1.3 HOW MIGHT I BE EXPOSED TO HEPTACHLOR AND HEPTACHLOR EPOXIDE?	3
1.4 HOW CAN HEPTACHLOR AND HEPTACHLOR EPOXIDE ENTER AND LEAVE MY BODY?	4
1.5 HOW CAN HEPTACHLOR AND HEPTACHLOR EPOXIDE AFFECT MY HEALTH?	5
1.6 IS THERE A MEDICAL TEST TO DETERMINE WHETHER I HAVE BEEN EXPOSED TO HEPTACHLOR AND HEPTACHLOR EPOXIDE?	6
1.7 WHAT RECOMMENDATIONS HAS THE FEDERAL GOVERNMENT MADE TO PROTECT HUMAN HEALTH?	6
1.8 WHERE CAN I GET MORE INFORMATION?	7
2. HEALTH EFFECTS	9
2.1 INTRODUCTION	9
2.2 DISCUSSION OF HEALTH EFFECTS BY ROUTE OF EXPOSURE	9
2.2.1 Inhalation Exposure	10
2.2.1.1 Death	10
2.2.1.2 Systemic Effects	11
2.2.1.3 Immunological Effects	12
2.2.1.4 Neurological Effects	12
2.2.1.5 Developmental Effects	12
2.2.1.6 Reproductive Effects	12
2.2.1.7 Genotoxic Effects	13
2.2.1.8 Cancer	13
2.2.2 Oral Exposure	14
2.2.2.1 Death	14
2.2.2.2 Systemic Effects	15
2.2.2.3 Immunological Effects	27
2.2.2.4 Neurological Effects	27
2.2.2.5 Developmental Effects	28
2.2.2.6 Reproductive Effects	29
2.2.2.7 Genotoxic Effects	30
2.2.2.8 Cancer	30
2.2.3 Dermal Exposure	31
2.2.3.1 Death	31
2.2.3.2 Systemic Effects	32

2.2.3.3	Immunological Effects	32
2.2.3.4	Neurological Effects	32
2.2.3.5	Developmental Effects	32
2.2.3.6	Reproductive Effects	32
2.2.3.7	Genotoxic Effects	32
2.2.3.8	Cancer	32
2.3	TOXICOKINETICS	32
2.3.1	Absorption	32
2.3.1.1	Inhalation Exposure	32
2.3.1.2	Oral Exposure	33
2.3.1.3	Dermal Exposure	34
2.3.2	Distribution	34
2.3.2.1	Inhalation Exposure	34
2.3.2.2	Oral Exposure	34
2.3.2.3	Dermal Exposure	36
2.3.3	Metabolism	36
2.3.4	Excretion	38
2.3.4.1	Inhalation Exposure	38
2.3.4.2	Oral Exposure	38
2.3.4.3	Dermal Exposure	38
2.4	RELEVANCE TO PUBLIC HEALTH	38
2.5	BIOMARKERS OF EXPOSURE AND EFFECT	47
2.5.1	Biomarkers Used to Identify or Quantify Exposure to Heptachlor and Heptachlor Epoxide	48
2.5.2	Biomarkers Used to Characterize Effects Caused by Heptachlor and Heptachlor Epoxide	49
2.6	INTERACTIONS WITH OTHER CHEMICALS	49
2.7	POPULATIONS THAT ARE UNUSUALLY SUSCEPTIBLE	50
2.8	METHODS FOR REDUCING TOXIC EFFECTS	50
2.8.1	Reducing Peak Absorption Following Exposure	51
2.8.2	Reducing Body Burden	51
2.8.3	Interfering with the Mechanism of Action for Toxic Effects	52
2.9	ADEQUACY OF THE DATABASE	52
2.9.1	Existing Information on Health Effects of Heptachlor and Heptachlor Epoxide	52
2.9.2	Identification of Data Needs	54
2.9.3	On-going Studies	59
3.	CHEMICAL AND PHYSICAL INFORMATION	61
3.1	CHEMICAL IDENTITY	61
3.2	PHYSICAL AND CHEMICAL PROPERTIES	61
4.	PRODUCTION, IMPORT, USE, AND DISPOSAL	65
4.1	PRODUCTION	65
4.2	IMPORT/EXPORT	65
4.3	USE	65
4.4	DISPOSAL	67
5.	POTENTIAL FOR HUMAN EXPOSURE	69
5.1	OVERVIEW	69
5.2	RELEASES TO THE ENVIRONMENT	69
5.2.1	Air	69

5.2.2	Water	72
5.2.3	Soil	72
5.3	ENVIRONMENTAL FATE	72
5.3.1	Transport and Partitioning	72
5.3.2	Transformation and Degradation	75
5.3.2.1	Air	75
5.3.2.2	Water	75
5.3.2.3	Soil	76
5.4	LEVELS MONITORED OR ESTIMATED IN THE ENVIRONMENT	77
5.4.1	Air	77
5.4.2	Water	77
5.4.3	Soil	78
5.4.4	Other Environmental Media	78
5.5	GENERAL POPULATION AND OCCUPATIONAL EXPOSURE	79
5.6	POPULATIONS WITH POTENTIALLY HIGH EXPOSURES	81
5.7	ADEQUACY OF THE DATABASE	81
5.7.1	Identification of Data Needs	82
5.7.2	On-going Studies	83
6.	ANALYTICAL METHODS	85
6.1	BIOLOGICAL MATERIALS	85
6.2	ENVIRONMENTAL SAMPLES	89
6.3	ADEQUACY OF THE DATABASE	92
6.3.1	Identification of Data Needs	92
6.3.2	On-going Studies	93
7.	REGULATIONS AND ADVISORIES	95
8.	REFERENCES	107
9.	GLOSSARY	129
APPENDICES		
A.	USER'S GUIDE	A-1
B.	ACRONYMS, ABBREVIATIONS, AND SYMBOLS	B-1
C.	PEER REVIEW	C-1

LIST OF FIGURES

2-1	Levels of Significant Exposure to Heptachlor and Heptachlor Epoxide - Oral	22
2-2	Metabolic Scheme for Heptachlor in Rats	37
2-3	Existing Information on Health Effects of Heptachlor and Heptachlor Epoxide	53
5-1	Frequency of NPL Sites with Heptachlor Contamination	70
5-2	Frequency of NPL Sites with Heptachlor Epoxide Contamination	71

LIST OF TABLES

2-1	Levels of Significant Exposure to Heptachlor and Heptachlor Epoxide - Oral	16
2-2	Genotoxicity of Heptachlor and Heptachlor Epoxide <u>In Vitro</u>	43
2-3	Genotoxicity of Heptachlor and Heptachlor Epoxide <u>In Vivo</u>	45
3-1	Chemical Identity of Heptachlor and Heptachlor Epoxide	62
3-2	Physical and Chemical Properties of Heptachlor and Heptachlor Epoxide	63
4-1	Facilities That Manufacture or Process Heptachlor	66
5-1	Releases to the Environment from Facilities That Manufacture or Process Heptachlor	73
6-1	Analytical Methods for Determining Heptachlor and Heptachlor Epoxide in Biological Materials	86
6-2	Analytical Methods for Determining Heptachlor and Heptachlor Epoxide in Environmental Samples	90
7-1	Regulations and Guidelines Applicable to Heptachlor	96
7-2	Regulations and Guidelines Applicable to Heptachlor Epoxide	103